



SEQUENCE LISTING

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<110> Clark, Geoff
     Ellis, Chad
     Vos, Michelle
<120> Rig: Novel Ras-Related Gene
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<160> 15
<170> PatentIn version 3.0
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33



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gaggaca	acct a	accg	gcago	gt ga	atca	gctgo	ga	caaga	agcg	tgt	gcac	gct	gcaga	atcac	:a :	180
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gccttca	atcc 1	tggt	gttct	c c	gtca	ccago	aag	gcagt	cgc	tgga	aggag	gct	gggg	ccat	c 3	300
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Gly Val	Gly	Lys 20	Ser	Ser	Leu	Val	Leu 25	Arg	Phe	Val	Lys	Gly 30	Thr	Phe		
Arg Asp	Thr 35	Tyr	Ile	Pro	Thr	Ile 40	Glu	Asp	Thr	Tyr	Arg 45	Gln	Val	Ile		





Ser	Cys 50	Asp	Lys	Ser	Val	Cys 55	Thr	Leu	Gln	Ile	Thr 60	Asp	Thr	Thr	Gly	
Ser 65	His	Gln	Phe	Pro	Ala 70	Met	Gln	Arg	Leu	Ser 75	Ile	Ser	Lys	Gly	His 80	
Ala	Phe	Ile	Leu	Val 85	Phe	Ser	Val	Thr	Ser 90	Lys	Gln	Ser	Leu	Glu 95	Glu	
Leu	Gly	Pro	Ile 100	Tyr	Lys	Leu	Ile	Val 105	Gln	Ile	Lys	Gly	Ser 110	Val	Glu	
Asp	Ile	Pro 115	Val	Met	Leu	Val	Gly 120	Asn	Lys	Cys	Asp	Glu 125	Thr	Gln	Arg	
Glu	Val 130	Asp	Thr	Arg	Glu	Ala 135	Gln	Ala	Val	Ala	Gln 140	Glu	Trp	Lys	Cys	
Ala 145	Phe	Met	Glu	Thr	Ser 150	Ala	Lys	Met	Asn	Tyr 155	Asn	Val	Lys	Glu	Leu 160	
Phe	Gln	Glu	Leu	Leu 165	Thr	Leu	Glu	Thr	Arg 170	Arg	Asn	Met	Ser	Leu 175	Asn	
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Val Lys Gly Lys 20

<210> 9

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<212> PRT

<213> Homo sapiens

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Leu Arg Leu Leu Pro Ala Leu Leu Ile Leu Arg Ala Phe Lys Pro His 20 25 30

Arg Lys Ile Arg Asp Tyr Arg Val Val Val Val Gly Thr Ala Gly Val 35 40 45

Gly Lys Ser Thr Leu Leu His Lys Trp Ala Ser Gly Asn Phe Arg His 50 55 60

Glu Tyr Leu Pro Thr Ile Glu Asn Thr Tyr Cys Gln Leu Leu Gly Cys 65 70 75 80

Ser His Gly Val Leu Ser Leu His Ile Thr Asp Ser Lys Ser Gly Asp 85 90 95

Gly Asn Arg Ala Leu Gln Arg His Val Ile Ala Arg Gly His Ala Phe 100 105 110

Val Leu Val Tyr Ser Val Thr Lys Lys Glu Thr Leu Glu Glu Leu Lys 115 120 125

Ala Phe Tyr Glu Leu Ile Cys Lys Ile Lys Gly Asn Asn Leu His Lys 130 135 140

Phe Pro Ile Val Leu Val Gly Asn Lys Ser Asp Asp Thr His Arg Glu 145 150 155 160

Val Ala Leu Asn Asp Gly Ala Thr Cys Ala Met Glu Trp Asn Cys Ala 165 170 175 Phe Met Glu Ile Ser Ala Lys Thr Asp Val Asn Val Gln Glu Leu Phe 180 180 185

His Met Leu Leu Asn Tyr Lys Lys Pro Thr Thr Gly Leu Gln Glu
195 200 205

Pro Glu Lys Lys Ser Gln Met Pro Asn Thr Thr Glu Lys Leu Leu Asp 210 215 220

Lys Cys Ile Ile Met 225

<210> 10

<211> 206

<212> PRT

<213> Homo sapiens

<400> 10

Met Ala Ala Asn Lys Pro Lys Gly Gln Asn Ser Leu Ala Leu His Lys 1 5 10 15

Val Ile Met Val Gly Ser Gly Gly Val Gly Lys Ser Ala Leu Thr Leu 20 25 30

Gln Phe Met Tyr Asp Glu Phe Val Glu Asp Tyr Glu Pro Thr Lys Ala 35 40 45

Asp Ser Tyr Arg Lys Lys Val Val Leu Asp Gly Glu Glu Val Gln Ile 50 55 60

Asp Ile Leu Asp Thr Ala Gly Gln Glu Asp Tyr Ala Ala Ile Arg Asp 65 70 75 80

Asn Tyr Phe Arg Ser Gly Glu Gly Phe Leu Cys Val Phe Ser Ile Thr 85 90 95

Glu Met Glu Ser Phe Ala Ala Thr Ala Asp Phe Arg Glu Gln Ile Leu 100 105 110

Arg Val Lys Glu Asp Glu Asn Val Pro Phe Leu Leu Val Gly Asn Lys 115 120 125

Ser Asp Leu Glu Asp Lys Arg Gln Val Ser Val Glu Glu Ala Lys Asn 130 135 140

Arg Ala Glu Gln Trp Asn Val Asn Tyr Val Glu Thr Ser Ala Lys Thr 145 150 155 160

Arg Ala Asn Val Asp Lys Val Phe Phe Asp Leu Met Arg Glu Ile Arg 165 170 175

Ala Arg Lys Met Glu Asp Ser Lys Glu Lys Asn Gly Lys Lys Arg 180 185 190

Lys Ser Leu Ala Lys Arg Ile Arg Glu Arg Cys Cys Ile Leu 195 200 205



<210> 11

<211> 184

<212> PRT

<213> Homo sapiens

<400> 11

Met Arg Glu Tyr Lys Leu Val Val Leu Gly Ser Gly Gly Val Gly Lys

1 10 15

Ser Ala Leu Thr Val Gln Phe Val Gln Gly Ile Phe Val Glu Lys Tyr 20 25 30

Asp Pro Thr Ile Glu Asp Ser Tyr Arg Lys Gln Val Glu Val Asp Cys 35 40 45

Gln Gln Cys Met Leu Glu Ile Leu Asp Thr Ala Gly Thr Glu Gln Phe 50 55 60

Thr Ala Met Arg Asp Leu Tyr Met Lys Asn Gly Gln Gly Phe Ala Leu 65 70 75 80

Val Tyr Ser Ile Thr Ala Gln Ser Thr Phe Asn Asp Leu Gln Asp Leu 85 90 95

Arg Glu Gln Ile Leu Arg Val Lys Asp Thr Glu Asp Val Pro Met Ile 100 105 110

Leu Val Gly Asn Lys Cys Asp Leu Glu Asp Glu Arg Val Val Gly Lys
115 120 125

Glu Gln Gly Gln Asn Leu Ala Arg Gln Trp Cys Asn Cys Ala Phe Leu 130 135 140

Glu Ser Ser Ala Lys Ser Lys Ile Asn Val Asn Glu Ile Phe Tyr Asp 145 150 155 160

Leu Val Arg Gln Ile Asn Arg Lys Thr Pro Val Glu Lys Lys Pro 165 170 175

Lys Lys Lys Ser Cys Leu Leu Leu 180

<210> 12

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<212> PRT

<213> Homo sapiens

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1 10 15

Ser Ala Leu Thr Val Gln Phe Val Thr Gly Thr Phe Ile Glu Lys Tyr 20 25 30



Asp Pro Thr Ile Glu Asp Phe Tyr Arg Lys Glu Ile Glu Val Asp Ser 35 40 45

Ser Pro Ser Val Leu Glu Ile Leu Asp Thr Ala Gly Thr Glu Gln Phe 50 55 60

Ala Ser Met Arg Asp Leu Tyr Ile Lys Asn Gly Gln Gly Phe Ile Leu 65 70 75 80

Val Tyr Ser Leu Val Asn Gln Gln Ser Phe Gln Asp Ile Lys Pro Met 85 90 95

Arg Asp Gln Ile Ile Arg Val Lys Arg Tyr Glu Lys Val Pro Val Ile
100 105 110

Leu Val Gly Asn Lys Val Asp Leu Glu Ser Glu Arg Glu Val Ser Ser 115 120 125

Ser Glu Gly Arg Ala Leu Ala Glu Glu Trp Gly Cys Pro Phe Met Glu 130 135 140

Thr Ser Ala Lys Ser Lys Thr Met Val Asp Glu Leu Phe Ala Glu Ile 145 150 155 160

Val Arg Gln Met Asn Tyr Ala Ala Gln Pro Asp Lys Asp Asp Pro Cys 165 170 175

Cys Ser Ala Cys Asn Ile Gln 180

<210> 13

<211> 189

<212> PRT

<213> Homo sapiens

<400> 13

Met Thr Glu Tyr Lys Leu Val Val Gly Ala Gly Gly Val Gly Lys 1 5 10 15

Ser Ala Leu Thr Ile Gln Leu Ile Gln Asn His Phe Val Asp Glu Tyr 20 25 30

Asp Pro Thr Ile Glu Asp Ser Tyr Arg Lys Gln Val Val Ile Asp Gly 35 40 45

Glu Thr Cys Leu Leu Asp Ile Leu Asp Thr Ala Gly Gln Glu Glu Tyr 50 55 60

Ser Ala Met Arg Asp Gln Tyr Met Arg Thr Gly Glu Gly Phe Leu Cys 65 70 75 80

Val Phe Ala Ile Asn Asn Thr Lys Ser Phe Glu Asp Ile His Gln Tyr 85 90 95

Arg Glu Gln Ile Lys Arg Val Lys Asp Ser Asp Asp Val Pro Met Val 100 105 110



Leu Val Gly Asn Lys Cys Asp Leu Ala Ala Arg Thr Val Glu Ser Arg
115 120 125

Gln Ala Gln Asp Leu Ala Arg Ser Tyr Gly Ile Pro Tyr Ile Glu Thr 130 135 140

Ser Ala Lys Thr Arg Gln Gly Val Glu Asp Ala Phe Tyr Thr Leu Val 145 150 155 160

Arg Glu Ile Arg Gln His Lys Leu Arg Lys Leu Asn Pro Pro Asp Glu 165 170 175

Ser Gly Pro Gly Cys Met Ser Cys Lys Cys Val Leu Ser 180 185

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<212> PRT

<213> Homo sapiens

<400> 14

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Gly Gly Pro Gly Pro Gly Asp Pro Pro Pro Ser Glu Thr His Lys Leu 20 25 30

Val Val Gly Gly Gly Val Gly Lys Ser Ala Leu Thr Ile Gln
35 40 45

Phe Ile Gln Ser Tyr Phe Val Ser Asp Tyr Asp Pro Thr Ile Glu Asp 50 55 60

Ser Tyr Thr Lys Ile Cys Ser Val Asp Gly Ile Pro Ala Arg Leu Asp 65 70 75 80

Ile Leu Asp Thr Ala Gly Gln Glu Glu Phe Gly Ala Met Arg Glu Gln
85 90 95

Tyr Met Arg Ala Gly His Gly Phe Leu Leu Val Phe Ala Ile Asn Asp 100 105 110

Arg Gln Ser Phe Asn Glu Val Gly Lys Leu Phe Thr Gln Ile Leu Arg 115 120 125

Val Lys Asp Arg Asp Asp Phe Pro Val Val Leu Val Gly Asn Lys Ala 130 135 140

Asp Leu Glu Ser Gln Arg Gln Val Pro Arg Ser Glu Ala Ser Ala Phe 145 150 155

Gly Ala Ser His His Val Ala Tyr Phe Glu Ala Ser Ala Lys Leu Arg 165 170 175



Leu Asn Val Asp Glu Ala Phe Glu Gln Leu Val Arg Ala Val Arg Lys
180 185 190

Tyr Gln Glu Gln Glu Leu Pro Pro Ser Pro Pro Ser Ala Pro Arg Lys
195 200 205

Lys Gly Gly Cys Pro Cys Val Leu Leu 210 215

<210> 15

<211> 184

<212> PRT

<213> Homo sapiens

<400> 15

Met Pro Gln Ser Lys Ser Arg Lys Ile Ala Ile Leu Gly Tyr Arg Ser 1 5 10 15

Val Gly Lys Ser Ser Leu Thr Ile Gln Phe Val Glu Gly Gln Phe Val
20 25 30

Asp Ser Tyr Asp Pro Thr Ile Glu Asn Thr Phe Thr Lys Leu Ile Thr 35 40 45

Val Asn Gly Gln Glu Tyr His Leu Gln Leu Val Asp Thr Ala Gly Gln 50 60

Asp Glu Tyr Ser Ile Phe Pro Gln Thr Tyr Ser Ile Asp Ile Asn Gly 65 70 75 80

Tyr Ile Leu Val Tyr Ser Val Thr Ser Ile Lys Ser Phe Glu Val Ile 85 90 95

Lys Val Ile His Gly Lys Leu Leu Asp Met Val Gly Lys Val Gln Ile 100 105 110

Pro Ile Met Leu Val Gly Asn Lys Lys Asp Leu His Met Glu Arg Val 115 120 125

Ile Ser Tyr Glu Glu Gly Lys Ala Leu Ala Glu Ser Trp Asn Ala Ala 130 135 140

Phe Leu Glu Ser Ser Ala Lys Glu Asn Gln Thr Ala Val Asp Val Phe 145 150 155 160

Arg Arg Ile Ile Leu Glu Ala Glu Lys Met Asp Gly Ala Ala Ser Gln 165 170 175

Gly Lys Ser Ser Cys Ser Val Met 180